CIVIL QUALITY
CONSULTANTS & ENGINEERS

Testing of Construction Material - Mechanical, Soil
Bitumen, Non Destructive Testing Services, Project
Management Consultants, Third Party Quality Assurance, DPR

Job No.: CQCE/BBMP/SD/03/2023-24

29.03.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri Shadyan (Sadian),(Ganesh Engineering works),** Contractor, Bangalore.

Name of the work : Removing of Silt and Repairs and Maintenance of Footpath in ward no.03 Attur, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.03.2024	29.03.2024	8.185	320.5	14.24
2	22.03.2024	29.03.2024	8.164	349.5	15.53
3	22.03.2024	29.03.2024	8.158	362.3	16.10

Note:

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Corporate Off : No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact : 8553518550, 080-23240644 Email : civilqualityconsultants@gmail.com

CIVIL QUALITY CONSULTANTS & ENGINEERS

Testing of Construction Material - Mechanical, Soil Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR

Job No.: CQCE/BBMP/SD/03/2023-24

19.04.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri Shadyan (Sadian),(Ganesh Engineering works),** Contractor, Bangalore.

Name of the work : Removing of Silt and Repairs and Maintenance of Footpath in ward no.03 Attur, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.03.2024	19.04.2024	8.058	520.2	23.12
2	22.03.2024	19.04.2024	8.164	538.6	23.94
3	22.03.2024	19.04.2024	8.128	495.3	22.01

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Testing of Construction Material - Mechanical, Soil Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR

Job No.: CQCE/BBMP/SD/03/2023-24

29.03.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri Shadyan (Sadian),(Ganesh Engineering works),** Contractor, Bangalore.

Name of the work : Removing of Silt and Repairs and Maintenance of Footpath in ward no.03 Attur, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.03.2024	29.03.2024	8.198	326.2	14.50
2	22.03.2024	29.03.2024	8.167	356.5	15.84
3	22.03.2024	29.03.2024	8.179	348.3	15.48

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Job No.: CQCE/BBMP/SD/03/2023-24

19.04.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri Shadyan (Sadian),(Ganesh Engineering works),** Contractor, Bangalore.

Name of the work : Removing of Silt and Repairs and Maintenance of Footpath in ward no.03 Attur, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.03.2024	19.04.2024	8.058	538.5	23.93
2	22.03.2024	19.04.2024	8.128	510.5	22.69
3	22.03.2024	19.04.2024	8.166	496.3	22.06

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Testing of Construction Material - Mechanical, Soil
Bitumen, Non Destructive Testing Services, Project
Management Consultants, Third Party Quality Assurance, DPR

Job No.: CQCE/BBMP/SD/03/2023-24

30.03.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri Shadyan (Sadian),(Ganesh Engineering works),** Contractor, Bangalore.

Name of the work : Removing of Silt and Repairs and Maintenance of Footpath in ward no.03 Attur, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.03.2024	30.03.2024	8.158	328.5	14.60
2	23.03.2024	30.03.2024	8.164	356.0	15.82
3	23.03.2024	30.03.2024	8.148	364.2	16.19

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Testing of Construction Material - Mechanical, Soil Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR

Job No.: CQCE/BBMP/SD/03/2023-24

20.04.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri Shadyan (Sadian),(Ganesh Engineering works),** Contractor, Bangalore.

Name of the work : Removing of Silt and Repairs and Maintenance of Footpath in ward no.03 Attur, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.03.2024	20.04.2024	8.126	538.9	23.95
2	23.03.2024	20.04.2024	8.029	510.5	22.69
3	23.03.2024	20.04.2024	8.136	500.3	22.24

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Management Consultants, Third Party Quality Assurance, DPR

Job No.: CQCE/BBMP/SD/03/2023-24

30.03.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri Shadyan (Sadian),(Ganesh Engineering works),** Contractor, Bangalore.

Name of the work : Removing of Silt and Repairs and Maintenance of Footpath in ward no.03 Attur, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.03.2024	30.03.2024	8.195	329.4	14.64
2	23.03.2024	30.03.2024	8.158	365.2	16.23
3	23.03.2024	30.03.2024	8.164	340.9	15.15

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Testing of Construction Material - Mechanical, Soil Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR

Job No.: CQCE/BBMP/SD/03/2023-24

Date: 08.04.2024

KERB STONE (CORE) TEST REPORT

Client : : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : : **Sri Shadyan (Sadian),(Ganesh Engineering works),** Contractor, Bangalore.

Name of Work : : Removing of Silt and Repairs and Maintenance of Footpath in ward no.03 Attur, BBMP, Bangalore

No.of Sample Tested : 03

Date of Testing : 08.04.2024

Technical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	76.00	0.347	2325.34	1.52	0.948	33.70	17.16	18.54	17.58	21.97
2	50.00	79.00	0.366	2359.52	1.58	0.955	34.50	17.57	18.98	18.12	22.64
3	50.00	83.00	0.390	2393.08	1.66	0.963	35.90	18.28	19.75	19.02	23.78

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Management Consultants, Third Party Quality Assurance, DPR

Job No.: CQCE/BBMP/SD/03/2023-24

19.04.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri Shadyan (Sadian),(Ganesh Engineering works),** Contractor, Bangalore.

Name of the work : Removing of Silt and Repairs and Maintenance of Footpath in ward no.03 Attur, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.03.2024	19.04.2024	8.123	528.5	23.49
2	22.03.2024	19.04.2024	8.086	534.6	23.76
3	22.03.2024	19.04.2024	8.191	508.3	22.59

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CIVIL QUALITY CONSULTANTS & ENGINEERS

Testing of Construction Material - Mechanical, Soil Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR

Job No.: CQCE/BBMP/SD/03/2023-24

Date: 16.03.2024

TEST REPORT ON CEMENT

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri Shadyan (Sadian),(Ganesh Engineering works),** Contractor, Bangalore.

Name of Work : Removing of Silt and Repairs and Maintenance of Footpath in ward no.03 Attur, BBMP, Bangalore

Sample : : Cement (Dalmia 53 grade OPC)

Sample Supplied by: : AGENCY

Date of Manufacture: : February - 2024

Date of Testing : 14.03.2024 to 16.03.2024

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	125 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	360 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00%	-

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Job No.: CQCE/BBMP/SD/03/2023-24

Date : 16.03.2024

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri Shadyan (Sadian),(Ganesh Engineering works),** Contractor, Bangalore.

Name of Work : Removing of Silt and Repairs and Maintenance of Footpath in ward no.03 Attur, BBMP, Bangalore

Date of Testing : 16.03.2024

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	205	4.1	4.1	95.9	95-100
10	2537	50.7	54.8	45.2	25-55
4.75	1872	37.4	92.3	7.7	0-10

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Management Consultants, Third Party Quality Assurance, DPR

Job No.: CQCE/BBMP/SD/03/2023-24

Date : 16.03.2024

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri Shadyan (Sadian),(Ganesh Engineering works),** Contractor, Bangalore.

Name of Work : Removing of Silt and Repairs and Maintenance of Footpath in ward no.03 Attur, BBMP, Bangalore

Date of Testing : 16.03.2024

Material : Sand(Plastering)

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	18	1.80	1.80	98.2	95-100
2.36	23	2.30	4.10	95.9	95-100
1.18	34	3.40	7.50	92.5	90-100
600 Micron	67	6.70	14.20	85.8	80-100
300 Micron	239	23.90	38.10	61.9	20-65
150 Micron	504	50.40	88.50	11.5	0-15

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Management Consultants, Third Party Quality Assurance, DPR

Job No.: CQCE/BBMP/SD/03/2023-24

Date : 16.03.2024

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri Shadyan (Sadian),(Ganesh Engineering works),** Contractor, Bangalore.

Name of Work : Removing of Silt and Repairs and Maintenance of Footpath in ward no.03 Attur, BBMP, Bangalore

Date of Testing : 16.03.2024

Material : Sand(Masonry)

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	17	1.70	1.70	98.3	90-100
1.18	19	1.90	3.60	96.4	70-100
600 Micron	63	6.30	9.90	90.1	40-100
300 Micron	248	24.80	34.70	65.3	5-70
150 Micron	506	50.60	85.30	14.7	0-15

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಜಿ.ಬಿ.ಎ.ಪಿ. ಬೆಂಗಳೂರು-64

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Corporate Off : No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact : 8553518550, 080-23240644 Email : civilqualityconsultants@gmail.com

CIVIL QUALITY
CONSULTANTS & ENGINEERS

Testing of Construction Material - Mechanical, Soil
Bitumen, Non Destructive Testing Services, Project
Management Consultants, Third Party Quality Assurance, DPR

Job No.: CQCE/BBMP/SD/03/2023-24 Date: 08.04.2024

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client : **: Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Contractor : **: Sri Shadyan (Sadian),(Ganesh Engineering works),** Contractor, Bangalore.

Name of Work : : Removing of Silt and Repairs and Maintenance of Footpath in ward no.03 Attur, BBMP, Bangalore

No.of Sample Tested : 03

Date of Testing : 08.04.2024

Techinical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	76.00	0.347	2325.34	1.52	0.948	32.80	16.70	18.04	17.11	21.38
2	50.00	78.00	0.361	2357.13	1.56	0.952	33.60	17.11	18.48	17.60	22.00
3	50.00	80.00	0.376	2393.69	1.60	0.957	34.50	17.57	18.98	18.16	22.70

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
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